

Message Text

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ORIGIN COME-00

INFO OCT-01 CIAE-00 DODE-00 EB-07 NRC-05 NSAE-00 TRSE-00

EUR-12 ERDA-05 ISO-00 EA-07 ACDA-05 /042 R

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TO USMISSION OECD PARIS PRIORITY

C O N F I D E N T I A L STATE 013459

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW: IML 20, SUPERCONDUCTIVE
MATERIALS

- REF: 1) COCOM DOC DEF (74)ML 20/1/5
2) COCOM DEF (74)ML 20.1 AND ML 20/1.3
3) COCOM DEF (74)ML 20/1.6
4) COCOM DEF (74)ML 20/1.2
5) COCOM REV (71)ML 20/3
6) COCOM REV (71)ML 20/4

1. WE HOPE BY THIS TIME THAT THE NOVEMBER 18 FUROR
ATTENDING THE SUBMISSION OF THE US COUNTERPROPOSAL (REF 1)
HAS SUBSIDED NOW THAT THE DELEGATIONS HAVE HAD TIME TO
DIGEST THE US COUNTERPROPOSAL AND US STATEMENT OF ITS
UNDERSTANDING OF "SUPERCONDUCTIVE WIRE" AS PRESENTED IN
PARA 2 OF REF 3. THE THRUST OF THAT STATEMENT IS THAT
THE US ACCEPTS THE GERMAN BELIEF AS PRESENTED IN DEF (74)
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ML 20.1 (REF 2) THAT THE POINT OR BASIS OF MEASUREMENT

SHOULD BE THE DIAMETER OF THE FILAMENT IN THE SUPER-CONDUCTIVE WIRE, NOT THE DIAMETER OF THE WIRE, I.E. FILAMENT, MATRIX AND INSULATING MATERIAL. TO MAKE THIS CLEAR AND TO PLACE US LANGUAGE FOR SUB-ITEM (B)(1) AS WELL AS FOR AEN INTO LINE WITH THAT STATEMENT, US COUNTER-PROPOSAL SHOULD BE AMENDED AS GIVEN STATE 11723. THESE REVISIONS ARE EDITORIAL IN NATURE AND DO NOT CHANGE OR MODIFY THE SUBSTANTIVE PARAMETERS OF THE US COUNTERPROPOSAL.

2. WE BELIEVE THESE CHANGES GO PART WAY TOWARDS MEETING THE GERMAN PROPOSAL IN REF 2. WE ALSO BELIEVE WE HAVE GONE AS FAR AS WE CAN TOWARD ACCOMODATING THE GERMANS RE THE REMAINING DIFFERENCE -- 38 MICRON PARAMETER FOR (B)(1) VERSUS THE US POSITION FOR THE RETENTION OF THE PRESENT 75 MICRON PARAMETER BY OUR PROPOSAL RE (B)(1)(II). THE REMAINING 2 MICRON DIFFERENCE SHOULD NOT BE A SIGNIFICANT PROBLEM.

3. RE FRENCH QUESTIONS IN REF 3: USE MISKELL'S DRAWING AS A STOP GAP MEASURE IN REPLYING FOR THE FRENCH REQUEST FOR A PICTURE, POINTING OUT THAT IT IS SUBSTANTIALLY ACCURATE, BUT THAT WE WILL SUPPLY A MORE FINISHED DRAWING OBTAINED FROM BROCHURES. YOU SHOULD NOTE THAT THE WIRE (MATRIX AND INSULATION) DOES NOT NECESSARILY HAVE TO BE ROUND. RE FRENCH QUESTIONS ON MANUFACTURING TOLERANCES AND "RATED" ISSUES, REPLY AS FOLLOWS:

(1) WHILE OBTAINING OR DRAWING, 40 MICRON DIAMETER FILAMENTS DOES PRESENT MANUFACTURING PROBLEMS, IT CAN BE ACHIEVED; THIS FACT IS ILLUSTRATED BY TABLE 1 (DIMENSIONS OF NIOMAX FMA61) IN BROCHURE SUBMITTED BY UK IN CONNECTION WITH EXCEPTIONS REQUEST COVERED BY COCOM DOC (70)1352 AND BY SPECIFICATIONS CONTAINED IN GERMAN PROPOSAL IN DEF (74)ML 20.1 (REF 2) PARTICULARLY IN PARA 2 (JUSTIFICATION) EXAMPLES C AND D, AS WELL AS IN SUPPORTIVE MATERIAL SUBMITTED BY THE GERMANS FOR DEF (74)ML 20/1.3 (REF 2). (SEE ALSO 1.4 AND 1.5.)

(2) WE DO NOT COMPLETELY UNDERSTAND WHAT GAMET MEANS BY "RATING". WE THINK HE IS REFERRING TO THE CURRENT CONFIDENTIAL

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CARRYING CAPABILITY OF THE FINISHED WIRE (INCLUDING FILAMENTS, MATRIX, AND INSULATION) UNDER CONDITIONS OF SUPERCONDUCTIVITY. THIS, HOWEVER, IS A COMPLEX FACTOR GOVERNED BY MANY VARIABLES, E.G. FILAMENT SIZE, NUMBER OF FILAMENTS IN THE MATRIX, AND RATIO OF COPPER TO SUPERCONDUCTIVE ALLOY WITH THE LATTER VARYING FROM 1.5 TO 1 AND UP TO 16 TO 1. THEREFORE, WE BELIEVE THAT A "RATED" VALUE WOULD BE MORE CONFUSING THAN HELPFUL.

FURTHERMORE, OUR REVIEW OF EXCEPTIONS REQUESTS SINCE 1970 DISCLOSES THAT THOSE REQUESTS MADE NO REFERENCE TO "RATING", I.E., COCOM DOCS (70)407, (73)2070, (74)2044, (70)665, (73)2028. IF GAMET STILL HAS A PROBLEM, YOU SHOULD REQUEST WRITTEN CLARIFICATIONS SO WE CAN RESPOND.

4. GENERAL BACKGROUND INFORMATION RE "WIRE (FILAMENT)" VERSUS "FILAMENT" PROBLEM MAY BE FOUND IN REF 4, PARTICULARLY PARA 4, AND IN REFS 5 AND 6, PARTICULARLY PARA 19 OF THE FORMER AND PARA 7 OF THE LATTER. IT IS NOT CLEAR FROM RECORDS AVAILABLE HERE WHY THE US PROPOSED SUBSTITUTION OF "WIRE (FILAMENT)" IN REF 6. WE BELIEVE THAT WAS AN ATTEMPT TO CLARIFY, WITH "(FILAMENT)" BEING THE OPERATIVE PORTION.

5. USDEL SHOULD CHANGE "SUB-ITEM (B)(1)(II)" TO "SUB-ITEM (B)(1)" IN NOTE, AS SUGGESTED IN TOWNSEND/ PRACHT TELECON; ALSO INSERT "FILAMENT" BEFORE "CROSS-SECTIONAL AREA" IN NOTE. KISSINGER

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